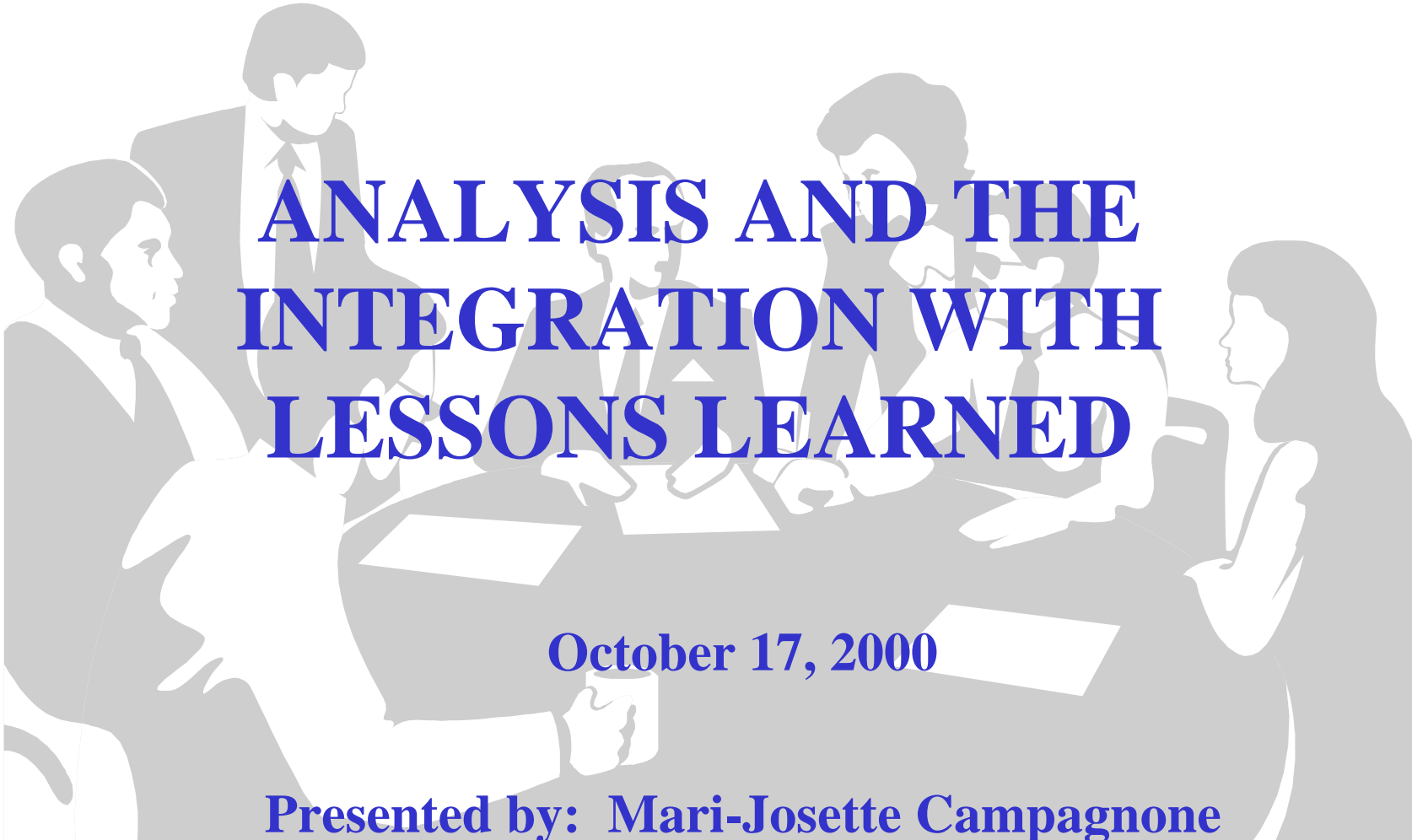


PA&A

**OFFICE OF ES&H PERFORMANCE
ASSESSMENT AND ANALYSIS**

A grayscale illustration of a business meeting. Several people in professional attire are seated around a large, dark, oval conference table. They are looking at documents or laptops, engaged in a discussion. The illustration is positioned behind the main title text.

ANALYSIS AND THE INTEGRATION WITH LESSONS LEARNED

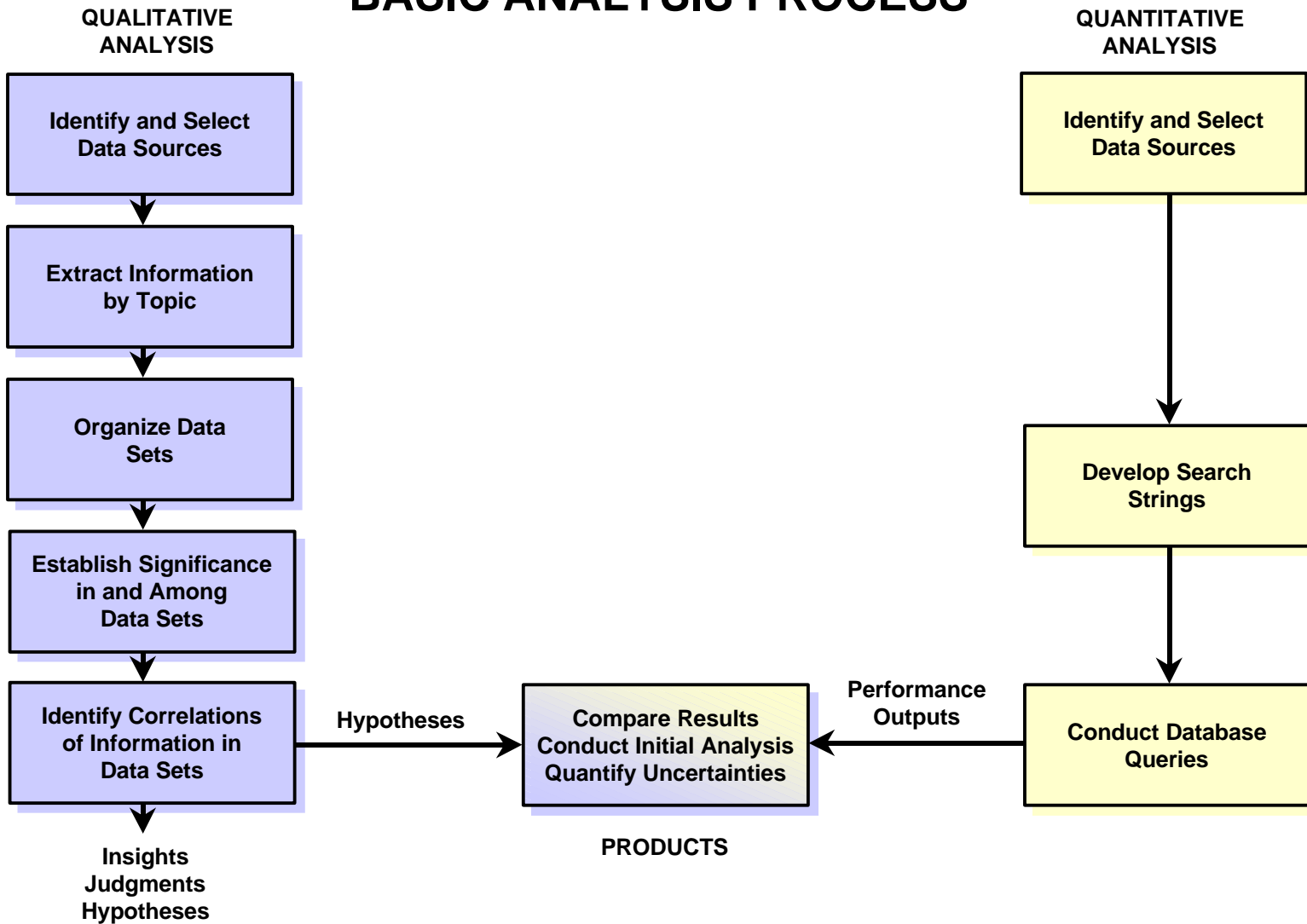
October 17, 2000

**Presented by: Mari-Josette Campagnone
Office of PA&A**

Analysis Objectives

- **Identify Safety Problems:**
Within Department, Sites, Programs, and Facilities
- **Clarify Problems:**
Causes, Significance, Factors, Responsibilities
- **Provide Safety Evaluations/Insights:**
Protection of the Public, Workers, and the Environment
- **Provide Tools:**
Senior Leadership, Oversight, Line Managers to Help Focus Efforts and Resources
- **Establish Safety Performance Baseline:**
Department, Sites, Topical Areas, Operations, ISM Guiding Principles & Core Functions

BASIC ANALYSIS PROCESS



- **Types of Data Sources e.g.**
 - IG, EAs, NOVs, Epi Studies
 - DNFSB, EPA, GAO
 - Site Data (Appraisals, Self-Assessments, Facility Representative Reports, Meetings)
 - Budget Data
- **How Does PA&A Ensure the Validity of Its Results?**
 - Data Selection
 - Comparison
 - Traceability and Repeatability of Assumptions and Analysis Process
 - Expert Reviews
 - Liaison With Sites

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PRODUCTS

Preparation Packages



Accident Investigations
Safety Management Evaluations
Special Studies/Reviews
Follow-up Inspections
Scheduling

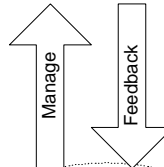
Tailored Packages



Research Senior Leadership Inquiries
Site Visit Packages
Analysis Reviews
Issue Research
Data System Investigation
Software Review
Stakeholder Briefings
Data Management
Monitor/Track Vulnerabilities, Hazards,
Risks, Corrective Actions

Programs

Lessons Learned
Performance Indicators



Complex-wide Report



Site Analyses



ANL-E	INEEL	ORNL	WIPP
ANL-W	KCP	Pantex	Y-12
BNL	LANL	PNNL	YMP
ETTP	LLNL	RFETS	
FEMP	MEMP	SNL	
Hanford	NTS	SRS	

Site Reference Sheets

AMES	LBNL	SLAC	TJNAF
FETC	PPPL	SPR	WVDP
FNAL	NREL	NETL	

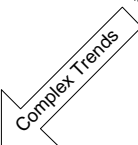
Topicals



Authorization Basis
Chemical Safety
Conduct of Ops
Construction Safety
Criticality Safety
D&D
Electrical Safety
Environmental Management
Fire Protection
LL&CA

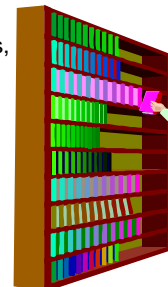
Maintenance
Occ Health/Indus Safety
QA
Rad Protection
Self-Assessment
Subcontractor Safety
Transportation Safety
Waste Storage
Worker Competency
Work Management

Analysts



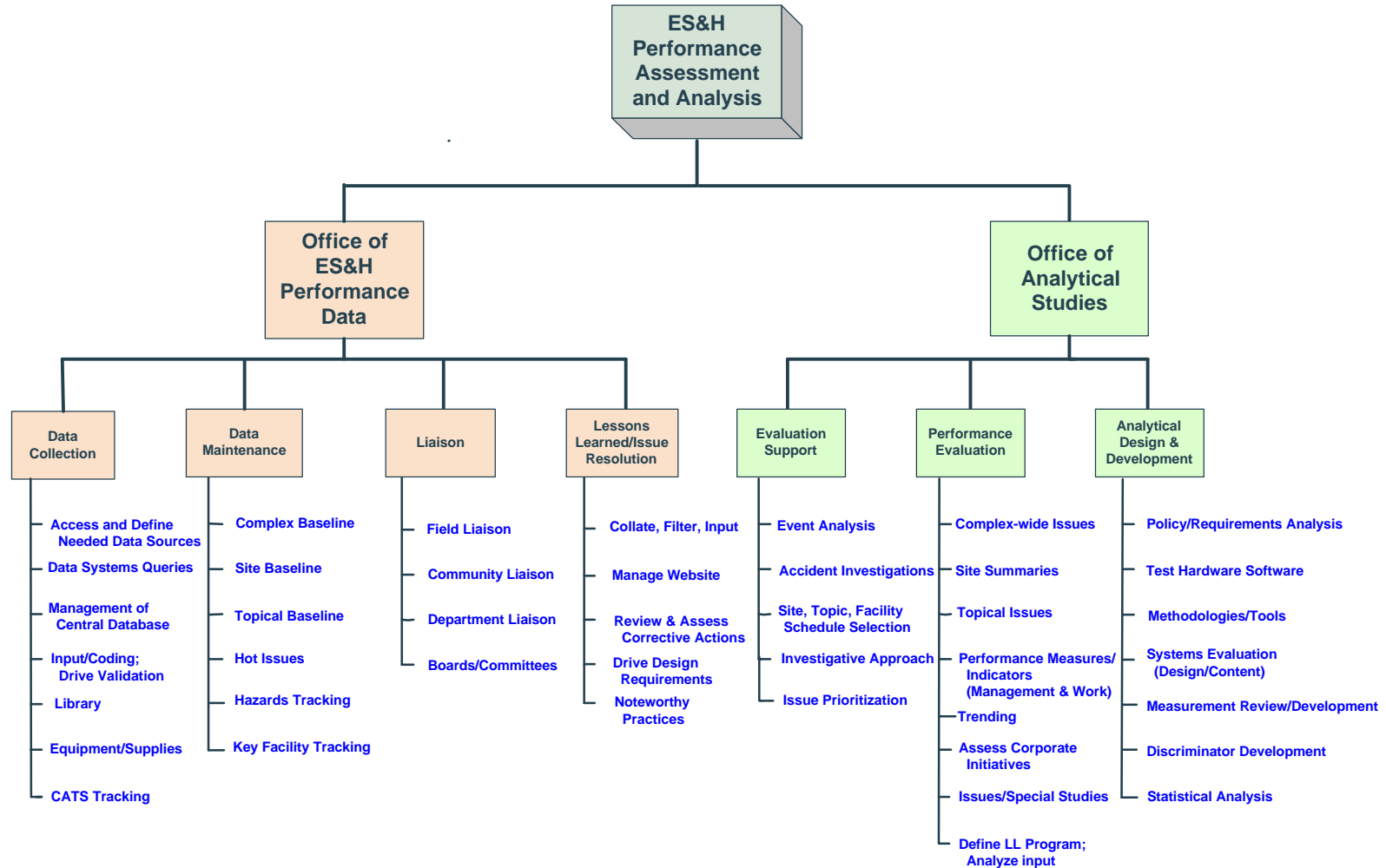
Expert Reviews

CAIRS
ORPS
REMS
NTS
HAZARDS/VULNERABILITIES



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ORGANIZATION AND FUNCTIONS



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APPLICATION OF ANALYSIS PROCESS

- **Compensates for Incomplete/Inadequate Data Streams**
- **Reconciles Discrepancies**
- **Provides Interface With Safety and Line Personnel**
- **Provides Credible Analytic Conclusions**
- **Provides Traceability**
- **Provides for Expert/Staff Review**

- DOE must learn and benefit from past events - -
What is the scope, and means to succeed?
- Lessons Learned/Corrective Actions programs today try to correct ES&H deficiencies through dissemination of data.
- What then is the evolution of this?



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The image features two overlapping banners. On the left is a gold-colored banner with a 3D effect and a folded corner, containing the text 'PA&A' in blue. To its right is a yellow banner with a gold border and a folded end, containing the text 'EVOLUTION' in blue.

EVOLUTION

Evolves from event-driven program to input lessons that relate to scientific advances, new information and positive work processes, and events as well.

- **Hydrological modeling**
- **Waste characterization**
- **Radiological controls**
- **Waste container design/procurement**

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EVOLUTION

- Strengthen the lessons learned program structure, interface w/operations and other ES&H activities
- Work with contractors and field to access different levels of knowledge
- Intent to communicate lessons learned beyond experts, and also to management
- Develop LL/CA program into a work management tool

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SUMMARY

- DOE/EFCOG are concerned that there is no real buy-in to LL/CA
- PA&A intends to provide a forum for good ideas to reach management; EFCOG intends to do same
- Input from SELLS is important, but effort should reach out and evolve beyond its grass-roots base
- Provide a means to compare and prioritize the mitigation of risk
- Provide a basis for focusing management attention